

IMPATIENS PLANT NAMED 'BALFUSNSET'  
LATIN NAME OF GENUS AND SPECIES OF CLAIMED PLANT

*Impatiens x hybrida*

VARIETY DENOMINATION

'Balfusnset'

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## **BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct *Impatiens* plant botanically known as *Impatiens x hybrida* and hereinafter referred to by the cultivar name 'Balfusnset'.

5        The new cultivar was developed by the inventors, in a controlled breeding program, during September 1999 at Elburn, Illinois. The objective of the breeding program was to develop *Impatiens* cultivars with numerous flowers, new and unique flower shape and colors, excellent basal branching, and upright compact to moderate growth habit.

10        The female (seed) parent of 'Balfusnset' was the proprietary *Impatiens walleriana* selection designated '9516-2' (not patented) characterized by its upright growth habit, coral-colored flowers, and medium green-colored foliage. The male (pollen) parent of 'Balfusnset' was the proprietary *Impatiens auricoma* selection designated '193' (not patented) characterized by its upright growth  
15        habit, yellow-colored flowers, and dark green-colored foliage. 'Balfusnset' was discovered and selected as a single flowering plant within the progeny of the above stated cross-pollination in April 2000 at Elburn, Illinois and initially designated 'PAS 32-05'.

Asexual reproduction of the new cultivar by shoot tip or stem cuttings taken  
20        since April 2000 at Elburn, Illinois and West Chicago, Illinois, has demonstrated that the new cultivar reproduce true to type with all the characteristics as herein described, firmly fixed and retained through successive generations of such asexual propagation.

## **SUMMARY OF THE INVENTION**

25        The new cultivar has not been observed under all possible environmental conditions to date. Accordingly, it is possible that the phenotype may vary somewhat with variations in the environment, such as temperature, light intensity, and day length without, however, any variance in genotype.

It was repeatedly found that the cultivar of the present invention:

- 30            1. Exhibits single slightly cupped apricot-colored flowers,  
              2. Forms medium green-colored foliage,

3. Exhibits a good basal branching character, and
4. Exhibits an upright and mounded growth habit.

Plants of the new cultivar differ from the female parent primarily in flower color, flower shape, and leaf shape, and from the male parent primarily in flower color, flower shape, leaf size, and branching habit.

Plants of the new cultivar can be compared to 'Balfusradn' (disclosed in related patent application No. \_\_\_\_\_). Both 'Balfusnset' and 'Balfusradn' were derived from the same two parental lines, however, 'Balfusnset' exhibits dark orange flower color whereas 'Balfusradn' exhibits light orange flower color.

Plants of the new cultivar can be compared to plants of '96-009-4' (U. S. Plant Patent No. 10,973). In a side-by-side comparison conducted in West Chicago, Illinois, plants of the new cultivar differed from plants of '98-009-4' primarily in the following characteristics:

1. Plants of the new cultivar have a more compact growth habit than plants of '96-009-4', and
2. Plants of the new cultivar have larger flowers than plants of '96-009-4'.

#### **BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

The accompanying photographs show, as nearly true as it is reasonably possible to make the same in color illustrations of this type, typical flower and foliage characteristics of the new cultivar. Colors in the photographs differ slightly from the color values cited in the detailed description, which accurately describe the colors of 'Balfusnset'. The plants were grown for 13 weeks in a greenhouse at West Chicago, Illinois.

Figure 1 illustrates a side view of the overall growth and flowering habit of 'Balfusnset'.

Figure 2 illustrates a close-up view of a single flower of 'Balfusnset'.

#### **DETAILED DESCRIPTION**

The chart used in the identification of colors described herein is the R.H.S. Colour Chart of The Royal Horticultural Society, London, England, 1995 edition, except where general color terms of ordinary significance are used. The color

values were determined on September 3, 2003 between 9:00 and 10:45 a.m. under natural light conditions.

The following measurements and comparisons describe plants produced from shoot tip or stem cuttings taken from stock plants and grown under greenhouse conditions comparable to those used in commercial practice. The plants were grown in 10 cm pots for 15 weeks utilizing a soilless growth medium. Greenhouse temperatures were maintained at approximately 72°F during the day and approximately 65°F during the night. Greenhouse light levels were maintained at approximately 4,000 - 6,000 footcandles during the day.

Botanical classification: *Impatiens x hybrida* cultivar 'Balfusnset'.

Parentage:

*Female (seed) parent:* Proprietary *Impatiens walleriana* selection designated '9516-2' (not patented).

*Male (pollen) parent:* Proprietary *Impatiens auricoma* selection designated '193' (not patented).

Propagation:

*Type cutting* – Stem (internodal) with two nodes.

*Time to initiate roots* - Approximately 7-14.

*Time to develop a rooted cutting* - Approximately 21 days.

*Root description* – Fine, fibrous.

*Rooting habit* - Freely branching.

Plant Description:

*Habit of growth* - Moderately vigorous with good basal branching. A mature plant, 15 weeks after the planting of a rooted cutting, commonly measures approximately 24.8 cm in height and approximately 41.6 cm in width (plant spread).

*Plant form* - Upright and mounded.

*Lateral branches* – Quantity: Approximately 2. Length: Approximately 21.5 cm.

Diameter: Approximately 1.1 cm. Texture: Glabrous. Color: 145A.

Internode length: Approximately 3.3 cm.

5      *Foliage* - Type: Simple. Arrangement of lower leaves: Alternate. Arrangement of upper leaves: Whorls. Shape: Elliptic. Apex: Acuminate/cuspidate. Base: Attenuate. Margin: Crenate with ciliation. Texture of upper and lower surface: Glabrous. Venation pattern: Pinnate, arcuate. Size of mature foliage: Length: Approximately 8.9 cm. Width: Approximately 4.1 cm. Color of mature foliage: Upper surface is 137A with veins and mid-vein of 137D. Lower surface is 147B with veins and mid-vein of 137D. Petiole: Diameter: Approximately 2 mm. Length: Approximately 2.7 cm with 2 mm stipules along edges. Texture: Upper and lower surface: Glabrous. Color: Upper and lower surface: 137D with overlay of 53B.

Flower Description:

15      *Flower type* – Single, not fragrant with self-cleaning petals.  
*Flowering habit* - Freely flowering with flowers positioned above the foliage and facing outward.  
*Natural flowering season* - Year round in greenhouse environment. Flowering is continuous from spring until fall in the garden.  
*Flower longevity on plant* - Approximately 5 days.  
20      *Quantity of flowers* - Approximately 5 flowers and 6 buds per stem at any one time.  
*Mature flower buds (just before opening)* – Shape: Ovate. Length: Approximately 1.4 cm. Diameter: Approximately 1 cm. Texture: Glabrous. Color: 30D.  
*Flower shape* – Oval, cupped when first open becoming more flat with age.  
25      *Flower size* – Length: Approximately 3.7 cm. Width: Approximately 3.2 cm. Depth: Approximately 1.5 cm.  
*Petals* - Number: Five per flower. Texture: Glabrous. Appearance: Iridescent.  
*Superior petal* - Length: Approximately 1.5 cm. Width: Approximately 1.3 cm. Shape: Cucullate. Margin: Entire. Apex: Emarginate. Base: Truncate.  
30      Color of upper surface: 13C with overlay of 28C at base. Color of lower surface: 13C with trace of 25D.

- Lateral petals* - Length: 1.7 cm. Width: 1.5 cm. Shape: Obovate. Margin: Entire. Apex: Obtuse. Base: Attenuate. Color of upper and lower surface: 13C with overlay of 28C and midrib of 28B.
- 5 *Lower petals* - Length: 2.1 cm. Width: 1.4 cm. Shape: Obovate. Margin: Entire. Apex: Obtuse. Base: Attenuate. Color of upper surface: 13B with mid-rib of 28A, center of petal having a small area along inner edge of 28B and veins of 45A along inner edges. Color of lower surface: 28D.
- 10 *Peduncles* – Strength: Good. Angle to stem: Acute. Length: Approximately 2.8 cm. Diameter: Approximately 1 mm. Texture: Glabrous. Color: 144B.
- 15 *Calyx* – Consists of 3 sepals. Lateral sepals: Length: Approximately 1 cm. Width: Approximately 4 mm. Texture of both surfaces: Glabrous. Color of both surfaces: 145C with tip of 145B. Lower sepal: Length: Approximately 1.5 cm. Width: Approximately 1.1 cm. Texture of both surfaces: Glabrous. Color of both surfaces: 145D with tip of 145B. Base of lower sepal is modified to form spur.
- 20 *Spur* – Quantity: One per flower. Double tipped. Length: Approximately 1.7 cm. Diameter at flower: Approximately 2 mm. Diameter of tips: Approximately 1 mm. Texture: Glabrous. Aspect: Moderately curved downward. Color: 145B.
- 25 *Reproductive organs* - Androecium: Five stamens, anthers are fused together forming one organ that surrounds the pistil. Filament color: 8B. Anther shape: Hooded. Anther length: Approximately 1 mm. Anther color: N78D. Pollen: None observed. Gynoecium: Pistil number: One per flower. Pistil length: 6 mm. Stigma shape: Five pointed star. Stigma length: 1.5 mm. Stigma color: Colorless, transparent. Style length: 1.5. Style color: Colorless, translucent. Ovary length: 4 mm. Ovary texture: Glabrous. Ovary color: 143B.
- 30 Seed and fruit development: Neither seed nor fruit production has been observed.

Disease and pest resistance: Resistance to pathogens and pests common to *Impatiens* has not been observed.